

Features

- Large switching capacity up to 40A
- Small size and light weight
- PCB pin and quick connect mounting available
- Suitable for automobile and lamp accessories
- QS-9000, ISO-9002 Certified Manufacturing

Contact Data

Contact Arrangement	1A = SPST N.O. 1B = SPST N.C. 1C = SPDT 1U = SPST N.O. (2 terminals)
Contact Rating	1A : 40A @ 14VDC 1B : 30A @ 14VDC 1C : 40A @ 14VDC N.O. and : 30A @ 14VDCN.C. 1U : 2x20A @ 14VDC

Contact Resistance	< 30 milliohms initial
Contact Material	AgSnO ₂
Maximum Switching Power	630W
Maximum Switching Voltage	75VDC
Maximum Switching Current	40A

Coil Data

Coil Voltage VDC		Coil Resistance Ω +/- 10%		Pick Up Voltage VDC (max) 70% of rated voltage	Release Voltage VDC (min) 10% of rated voltage	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	1.6W	1.9W					
6	7.8	22.5	19	4.20	.6	1.60 or 1.90	7	5
12	15.6	90	75.8	8.40	1.2			
24	31.2	360	303.2	16.80	2.4			

General Data

Electrical Life @ rated load	100K cycles, typical
Mechanical Life	10M cycles, typical
Insulation Resistance	100M Ω min. @ 500VDC
Dielectric Strength, Coil to Contact Contact to Contact	750V rms min. @ sea level 500V rms min. @ sea level
Shock Resistance	147m/s ² for 11 ms
Vibration Resistance	1.5mm double amplitude 10~40Hz
Terminal (Copper Alloy) Strength	8N (quick connect), 4N (PCB pins)
Operating Temperature	-40°C to +125°C
Storage Temperature	-40°C to +155°C
Solderability	260°C for 5 s
Weight	31g

Caution

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

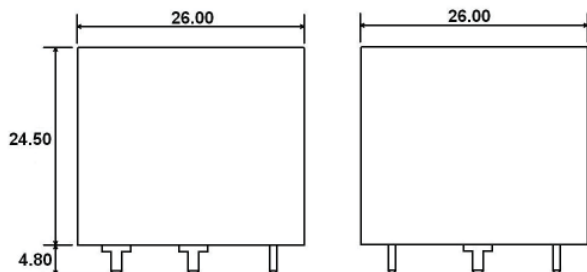
A2

Ordering Information

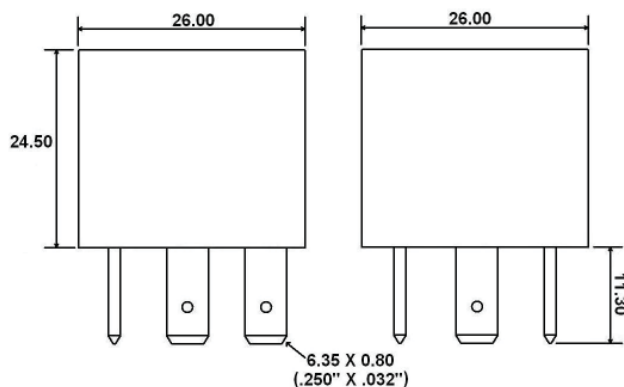
1. Series	A2	1C	S	Q	12VDC	1.6
A2 standard A2F with mounting flange A2M with metal bracket A2S with metal bracket and shroud						
2. Contact Arrangement						
1A = SPST N.O. 1B = SPST N.C. 1C = SPDT 1U = SPST N.O. (2 terminals)						
3. Sealing Option						
S = Sealed C = Dust Cover *not available with A2S						
4. Termination						
P = PCB Pins *not available with A2S Q = Quick Connect						
5. Coil Voltage						
6VDC 12VDC 24VDC						
6. Coil Power						
1.6 = 1.6W 1.9 = 1.9W						
7. Coil Suppression						
Blank = Standard D = Diode (1N4005) Cathode on "86" terminal D1 = Diode (1N4004) Cathode on "86" terminal R = Resistor (180Ω for 6VDC; 680Ω for 12VDC; 2700Ω for 24VDC) 2D = 2 Diodes (1N4005) DR = Diode & Resistor Cathode on "86" terminal (1N4005 & 180Ω for 6VDC; 680Ω for 12VDC; 2700Ω for 24VDC) ** Consult factory if other values are needed						

Dimensions

Units = mm



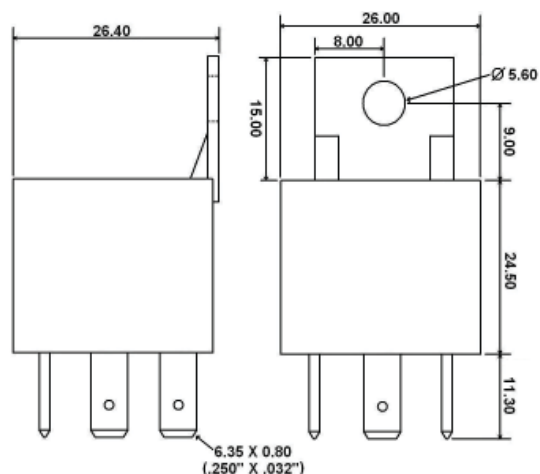
A2 with PC Pins



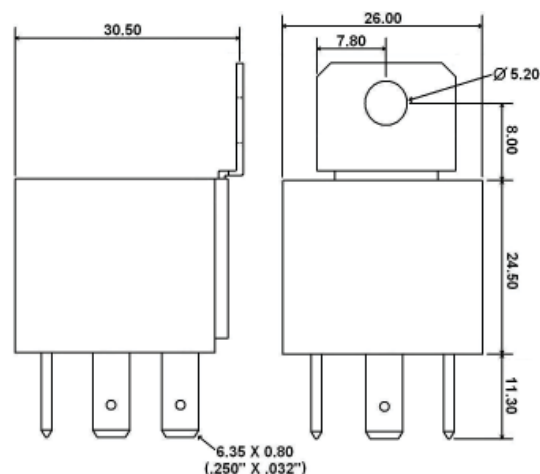
A2 with Quick Connects

Dimensions

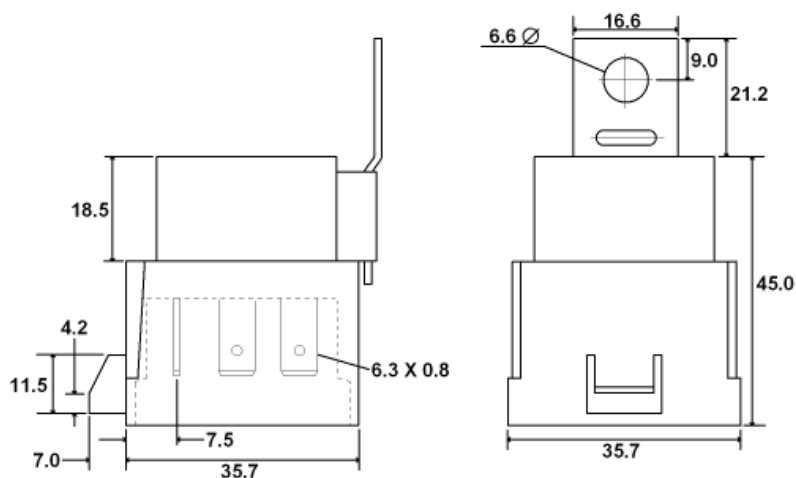
Units = mm



A2F with Quick Connect



A2M with Quick Connects



A2S with Quick Connects

Schematics, PC Pin Dimensions & PC Layouts

Bottom Views

